USER MANUAL DCS-3710

VERSION 1.0





SURVEILLANCE

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Preface

D-Link reserves the right to revise this publication and to make changes in the contents hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Date	Description
1.0	November 24, 2009	DCS-3710 Revision A1 with firmware version 1.00

Trademarks

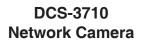
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Package Contents





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Camera Stand



Manual and Wizard on CD-ROM







C-CS Mount Adapter (5mm Ring)

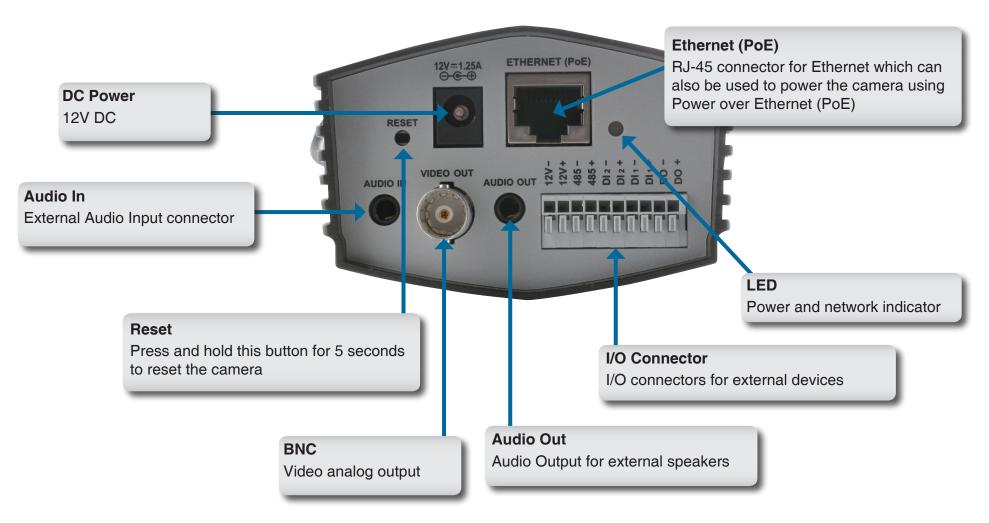
CAT5 Ethernet Cable

Power Adapter

If any of the above items are missing, please contact your reseller.

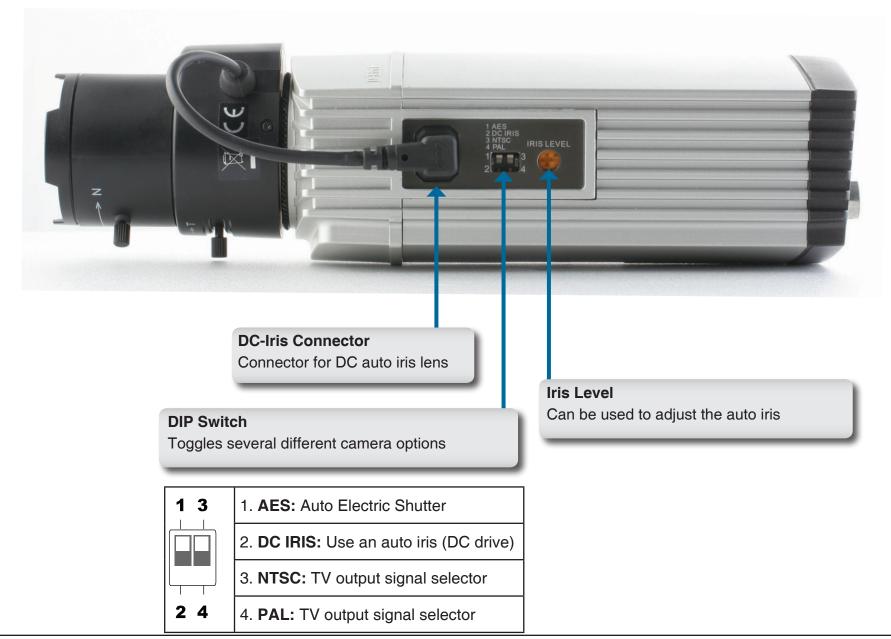
Hardware Overview

Rear



Front



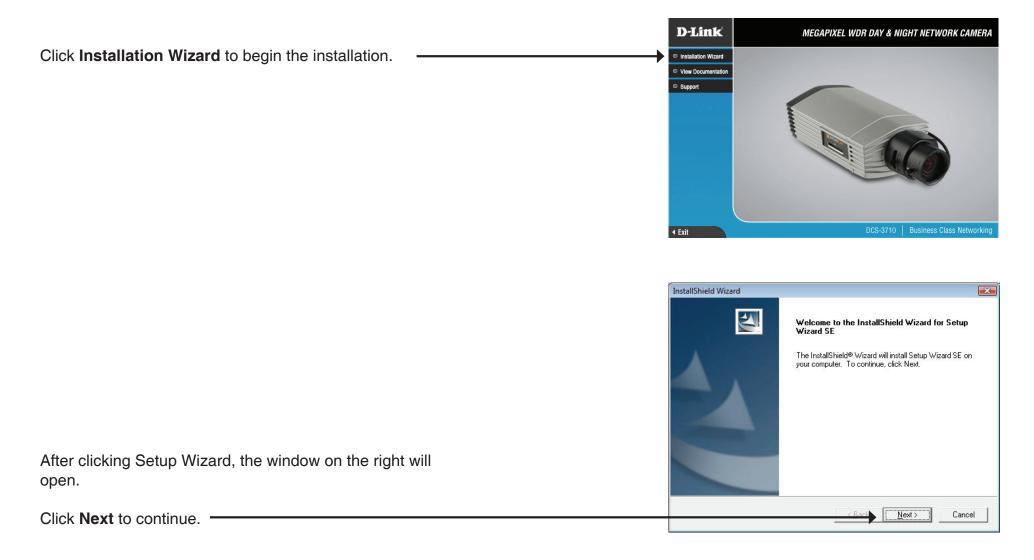




SD Card Slot Local SD card for storing recorded images and video

Configuration with Wizard

Insert the DCS-3710 CD into your computer's CD-ROM drive to begin the installation. If the Autorun function on your computer is disabled, or if the D-Link Launcher fails to start automatically, click **Start > Run**. Type **D:\DCS-3710.exe**, where D: represents the drive letter of your CD-ROM drive.



	InstallShield Wizard	×
	License Agreement Please read the following license agreement carefully.	
	Press the PAGE DOWN key to see the rest of the agreement.	
	D-Link Software License Agreement General Terms IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING THIS S; D-LINK SYSTEMS, INC. ("D-LINK") WILL LICENSE THE SOFTWARE TO Y YOU FIRST ACCEPT THE TERMS OF THIS AGREEMENT, BY INSTALLIN USING THE SOFTWARE YOU AGREE TO THESE TERMS. IF YOU DO NI TO THE TERMS OF THIS AGREEMENT, PROMPTLY RETURN THE UNU SOFTWARE TO THE PARTY (D-LINK OR ITS AUTHORIZED RESELLER) Do you accept all the terms of the preceding License Agreement? If you cho setup will close. To install Setup Wizard SE, you must accept this agreement	YOU ONLY IF IG AND/OR DT AGREE JSED FROM
Click Yes to accept the License Agreement.	InstallShield	

InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install Setup Wizard SE in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
C Destination Folder
C:\Program Files\D-Link\SetupWizardSE Browse
InstallShield
Cancel

Note: The installation may take several minutes to finish.



Click on the **D-Link Setup Wizard SE** icon that was created in your Windows Start menu.

Start > D-Link > Setup Wizard SE

🖬 D-Link 🕨 🖬 D-ViewCam	🕨 🕼 D-Link D-ViewCam
🛱 Programs 🔸 🧰 ESTsoft 🔶 🖮 Setup Wizard	d SE 🔸 👘 Uninstall
Documents	
Settings	
Search Google Chrome	
Help and Support ZDT	
Run Audacity	
Shut Down	
U Opera	
🀮 Start 🞯 😏 🕟 🧐 🔊 Windows Search	

The Setup Wizard will appear and display the MAC address and IP address of **D-Link** your camera(s). If you have a DHCP server on your network, a valid IP Address (P) SECURICAM Network will be displayed. If your network does not use a DHCP server, the network camera's default static IP address 192.168.0.20 will be displayed. MAC Address Current IP Address Device Name Click the **Wizard** button to continue. Wizard Link About Exit **D-Link** (e) SECURICAM Network Set up an Admin ID and Password to secure your camera. Click Next to continue. Admin ID Password Change Change New ID New Password Enter the Admin ID and password. When logging in for the first time, the default Reconfirm Reconfirm Admin ID is **admin** with the password left blank. Click **Next**, to proceed to the next page. Back

	D-Link Maling Network	
	Set IP A	ddress
	DHCP	
	 Static IP 	
	IP Address	192.168.1.185
	Subnet Mask	255.255.255.0
Oslast DUOD if your second a basics and ID address subscription that the state of	Default Gateway	192.168.1.1
Select DHCP if your camera obtains an IP address automatically when it boots up.	Primary DNS	192.168.1.1
Select static IP if the camera will use the same IP address each time it is started.	Secondary DNS	192.168.1.1
Click Next, to proceed to the next page.		Back Next Exit

	D-Link Mada Warek	
	Admin ID	admin
	Password	
	IP Address	192.168.0.102
	Subnet Mask	255.255.255.0
	Primary DNS	192.168.0.1
	Secondary DNS	192.168.0.1
		npleted. Click on 'Back' to modify rt' to save your current settings mera.
Take a moment to confirm your settings and click Restart .		Back @

D-Link DCS-3710 User Manual

Web-based Configuration Utility

This section explains how to configure your new D-Link Network Camera using the Web-based Configuration Utility.

Click on the **D-Link Setup Wizard SE** icon that was created in your Windows Start menu.

Start > D-Link > Setup Wizard SE

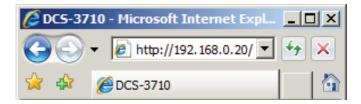
Select the camera and click the button labeled "Link" to access the web configuration.

The Setup Wizard will automatically open your web browser to the IP address of the camera.

Alternatively, you may manually open a browser and enter the IP address of the camera: **192.168.0.20**



	1		
	MAC Address	Current IP Address	Device Name
	00.1 c.f0.d3.fb.0e	192.168.1.185	DCS-3710
	00.1C.TU.03.TD.0E	192.108.1.185	DCS-3710
Wizard			
(management)			
Search			
Link			
LIIIK			
About			
Exit	-		
Exit			



Enter **admin** as the default username and leave the password blank. Click **OK** to _____ continue.

This section shows your camera's live video. You can select your video profile and view or operate the camera. For additional information about web configuration, please refer to the user manual included on the CD-ROM or the D-Link website.

		G
and password. Warning: This ser password be sent	.68.0.20 at DCS-3710 re over is requesting that you	our username and
without a secure		
without a secure	connection).	,
<u>U</u> ser name:		assword
<u>U</u> ser name:	admin	assword



Live Video

This section shows your camera's live video. You may select any of the available icons listed below to operate the camera. You may also select your language using the drop-down menu on the left side of the screen.

You can zoom in and out on the live video image using your mouse. Right-click to zoom out or left-click to zoom in on the image.

	Digital Input Indicator	This indicator will change color when a digital input signal is detected.
1994	Motion Trigger Indicator	This indicator will change color when a trigger event occurs.
		Note: The video motion feature for your camera must be enabled.
REC	Recording Indicator	When a recording is in progress, this indicator will change color.

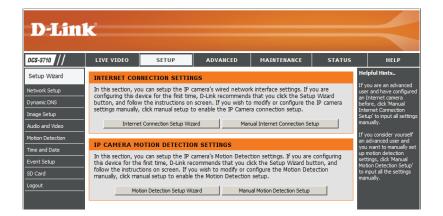
- Uideo Profile 1
- Video Profile 2
- Video Profile 3
- Full screen mode
- Taking a Snapshot
- Recording a Video Clip
- Set a Storage Folder
- Listen/Stop Listening
- Talk/Stop Talking
- Start/Stop Digital Output



Setup Wizard

To configure your Network Camera, click **Internet Connection Setup Wizard**. Alternatively, you may click **Manual Internet Connection Setup** to manually configure your Network Camera and skip to page 22.

To quickly configure your Network Camera's motion detection settings, click **Motion Detection Setup Wizard**. If you want to enter your settings without running the wizard, click **Manual Motion Detection Setup** and skip to page 27.



velcome to d-link setup wizard - internet connection setup

Internet Connection Setup Wizard

This wizard will guide you through a step-by-step process to configure your new D-Link Camera and connect the camera to the internet. Click **Next** to continue.

Note: Select DHCP if you are unsure of which settings to choose.

Click Next to continue.

e internet. To set-up your camera motion detection set otion detection setup wizard.	tings, please dick Back button to close this wizard and re-open the
	etup LAN Settings
	etup DDNS Settings Camera Name Settings
	etup Time Zone
Back	Next Cancel
tep 1: Setup LAN Settings	
nnected to a router, or you are unsure which settings t HCP connection. Otherwise, click on Static IP address to	ernet with a DHCP connection or Static IP address. If your camera is to pick, D-Link recommends that you keep the default selection of manually assign and IP address before clicity on the Next the case that your ISP is using PPPoE and then click on the Next Jsername and Password.
DHCP	
Static IP Clier	it
IP address	172.17.5.113
Subnet mask	255.255.255.0
Default router	172.17.5.254
Primary DNS	0.0.0.0
Secondary DNS	168.95.1.1
Enable PPPoE	
User Name	
	(e.g. 123456@hinet.net)
Password	
Back	Next Cancel

This wizard will quide you through a step-by-step process to configure your new D-Link Camera and connect the camera to

Configuration

Select Static IP if your Internet Service Provider has provided you with connection settings, or if you wish to set a static address within your home network. Enter the correct configuration information and click **Next** to continue.

If you are using PPPoE, select Enable PPPoE and enter your user name

If you have a Dynamic DNS account and would like the camera to update your IP address automatically, Select **Enable DDNS** and enter your host

and password, otherwise click Next to continue.

Enter a name for your camera and click Next to continue.

information. Click Next to continue.

Step 1: Setup LAN Settings

Please select whether your camera will connect to the Internet with a DHCP connection or Static IP address. If your camera is connected to a router, or you are unsure which settings to pick, D-Link recommends that you keep the default selection of DHCP connection. Otherwise, click on Static IP address to manually assign and IP address before clicking on the Next button.Please enter your ISP Username and Password in the case that your ISP is using PPPoE and then click on the Next button.Please contact your ISP if you do not know your Username and Password.

O DHCP	
Static IP Client	
IP address	172.17.5.113
Subnet mask	255.255.255.0
Default router	172.17.5.254
Primary DNS	0.0.0.0
Secondary DNS	168.95.1.1
Enable PPPoE	
User Name	
	(e.g. 123456@hinet.net)
Password	
Back	Next Cancel

Step 2: Setup DDNS Settings					
If you have a Dynamic DNS account and would like the camera to update your IP address automatically, enable DDNS and enter in your host information below. Please click on the Next button to continue.					
Enable DDNS					
Server Address www.dlinkddns	.com << www.dlinkddns.com				
Host Name					
User Name					
Password					
Verify Password					
Timeout 24	(hours)				
Bac	k Next Cancel				

Step 3: Camera Name Settings
D-Link recommends that you rename your camera for easy accessibility. You can then identify and connect to your camera via this name. Please assign a name of your choice before dicking on the Next button.
IP Camera Name DCS-3710
Back Next Cancel

Configuration

Configure the correct time to ensure that all events will be triggered as scheduled. Click **Next** to continue.

tep 4: Setup Time Zone
ease configure the correct time to ensure that all events are triggered, captured and scheduled at the correct time and day and then click on the Next button.
Time Zone (GMT-08:00) Pacific Time (US & Canada)
Enable Daylight Saving 🗖
Back Next Cancel

If you have selected DHCP, you will see a summary of your settings, including the camera's IP address. Please write down all of this information as you will need it in order to access your camera.

Click **Apply** to save your settings.

Step 5: Setup complete					
Below is a summary of your camera settings. Click on the Back button to review or modify settings or click on the Apply button if all settings are correct. It is recommended to note down these settings in order to access your camera on the network or via your web browser.					
	IP Address	DHCP			
	IP Camera Name DCS-3710				
	Time Zone	(GMT+08:00) Taipei			
	DDNS	Disable			
	PPPoE	Disable			
		Back Apply Cancel			

Motion Detection Setup Wizard

This wizard will guide you through a step-by-step process to configure your camera's motion detection functions.

Click Next to continue.

welcome to d-link setup wizard - motion detection

This wizard will guide you through a step-by-step process to configure your camera's motion detection functions. To setup the camera LAN or Internet settings, please click on the Back button to close this wizard and re-open the Camera Setup wizard. Otherwise click on the Next button to begin.

Step 1: Specify Motion Detection Area Settings
 Step 2: Alerts and Notifications

Back Next Cancel

Step 1

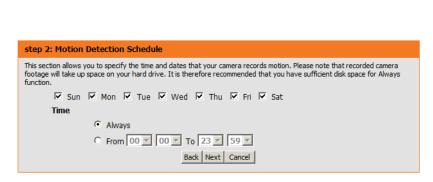
This step will allow you to enable or disable motion detection, specify the detection sensitivity, and adjust the camera's ability to detect movement.

You may specify whether the camera should capture a snapshot or a video clip when motion is detected.

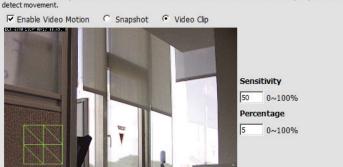
Please see the **Motion Detection** section on page 27 for information about how to configure motion detection.

Step 2

This step allows you to enable motion detection based on a customized schedule. Specify the day and hours. You may also choose to always record motion.



Back Next Cancel



Step 1: Specify Motion Detection Area Settings

This section will allow you to enable or disable motion detection as well as control the sensitivity of your camera's ability to detect movement.

Step 3

This step allows you to specify how you will receive event notifications from your camera. You may choose not to receive notifications, or to receive notifications via e-mail or FTP.

Please enter the relevant information for your e-mail or FTP account.

Click **Next** to continue.

Step 4

You have completed the Motion Detection Wizard.

Please verify your settings and click **Apply** to save them.

Please wait a few moments while the camera saves your settings and restarts.

Step 3: A	erts and notification		
Iternatively	you can setup an FTP Notification. You	e notification of camera events. Choose betwee will need your email account settings or FTP de have entered this information, please dick on	etails. If you are unsure of
O Do no	t motify me		
• Email			
	Sender email address		
	Recipient email address		
	Server address		
	User name		
	Password		
	Port	25	
C FTP			
	Server address		
	Port	21	
	User name		
	Password		
	Remote folder name		
	1	Back Next Cancel	

Step 4: Setup Complete	
You have completed your camera setup. Ple	ase dick the Back button if you want to review or modify your settings or dick on
the Apply button to save and apply your se	ttings.
Motion Detection :	Enable
EVENT :	Video Clip
Schedule Day :	Sun ,Mon ,Tue ,Wed ,Thu ,Fri ,Sat ,
Schedule Time :	Always
Alerts and Notification :	Email
	Back Apply Cancel

nt to review or modify your settings or click on
2di
3 seconds

Network Setup

Use this section to configure the network connections for your camera. All relevant information must be entered accurately.

LAN Settings: Settings for your local area network.

- **DHCP:** Select this connection if you have a DHCP server running on your network and would like your camera to obtain an IP address automatically.
- Static IP Address: You may obtain a static or fixed IP address and other network information from your network administrator for your camera. A static IP address may simplify access to your camera in the future.
 - IP Address: Enter the fixed IP address in this field.
 - Subnet Mask: This number is used to determine if the destination is in the same subnet. The default value is 255.255.255.0.
- **Default Gateway:** The gateway used to forward frames to destinations in a different subnet. Invalid gateway settings may cause the failure of transmissions to a different subnet.
 - Primary DNS: The primary domain name server translates names to IP addresses.

Ć				
LIVE VIDEO SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
NETWORK SETUP				Helpful Hints
You can configure your LAN and Int	ernet settings here.			Select 'DHCP Connection'if you are running a DHCP server
Save S	ettings Don't Save	Settings		your network and wou
LAN SETTINGS				ike an IP address assigned to your came automatically.
© DHCP				
C Static IP Client				- Enabling UPnP settin will allow you to config your camera as an UP
_	72.17.5.113			device in the network
Subnet mask	55.255.255.0			PPPoE Setting - If y use the camera to
	72.17.5.254			connect directly to the Internet, you will need
	.0.0.0			enter the username a bassword, which were given to you when yo
Secondary DNS	68.95.1.1			given to you when you set up your account w your Internet Service
Enable UPnP port forwarding				Provider. If the camer behind a router or a
	024 Test			gateway, you do not need to configure this
Forwarding Status U	PnP forwarding is active			setting.
PPPOE SETTINGS				HTTP Port is the por you allocate in order t
C Enable ☉ Disable				connect to the camera via a standard web
User Name				prowser. - HTTPS Port in a cam
Password				connects it with a PC a secure web browser
Confirm password PPPoE Status				- RTSP Port is the port
PPPOE Status				you allocate in order t connect to a camera b
нттр				using streaming mobile device(s), such as a nobile phone or PDA.
HTTP port	80			
Access name for stream1	video 1. mjpg			Traffic - Specifying th maximum download/ volgad bapdwith for a
Access name for stream2 Access name for stream3	video2.mjpg video3.mjpg			upload bandwith for e socket is useful when connecting your devic
Access hame for screams	videos.mpg			a busy or heavily load network.
HTTPS				* The value '0' means
HTTPS port 443				will not monitor any traffic.
RTSP				
RTSP port	554			
Access name for stream1	live 1.sdp			
Access name for stream2	live2.sdp			
Access name for stream3	live3.sdp			
TRAFFIC				
Maximum Upload Bandwidth:	Min Datas T. T			
Maximum Upload Bandwidth: 0 Maximum Download Bandwidth: 0	Kilo Bytes Per S Kilo Bytes Per S			
having the second	Kit bytes Per 5	econd		
Save S	ettings Don't Save	Settings		

Secondary DNS: The secondary DNS acts as a backup to the primary DNS.

Enable UPnP: Enabling this setting allows your camera to be configured as a UPnP device on your network.

Enable UPnP Port Enabling this setting allows the camera to add port forwarding entries into the router automatically on Forwarding: a UPnP capable network.

Configuration

Enable PPPoE: Enable this setting if your network uses PPPoE.

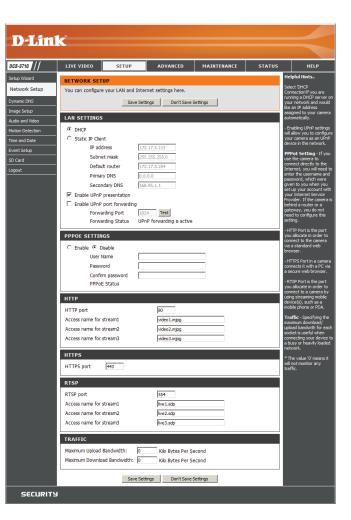
- User Name: The unique name of your account. You may obtain this information from your ISP.
- **Password:** The password to your account. You may obtain this information from your ISP.

HTTP Port: The default port number is 80.

Access Name for Stream 1~3: The default name is video#.mjpg, where # is the number of the stream.

- HTTPS Port: You may use a PC with a secure browser to connect to the HTTPS port of the camera. The default port number is 443.
- **RTSP Port:** The port number that you use for RTSP streaming to mobile devices, such as mobile phones or PDAs. The default port number is 554. You may specify the address of a particular stream. For instance, live1.sdp can be accessed at rtsp://x.x.x.x/video1.sdp where the x.x.x.x represents the ip address of your camera.

Maximum Upload/Download Specifying the maximum download/upload Bandwidth: bandwidth for each socket can be useful when connecting your device to a busy or heavily loaded network. Entering a value of '0' indicates that the camera should not monitor bandwidth. Specifying other values will limit the camera's transfer speed to the specified number of Kilobytes per second.



Dynamic DNS

DDNS (Dynamic Domain Name Server) will hold a DNS host name and synchronize the public IP address of the modem when it has been modified. A user name and password are required when using the DDNS service.

- Enable DDNS: Select this checkbox to enable the DDNS function.
- Server Address: Select your Dynamic DNS provider from the pull down menu or enter the server address manually.
 - Host Name: Enter the host name of the DDNS server.
 - User Name: Enter your user name or e-mail used to connect to the DDNS.
 - Password: Enter your password used to connect to the DDNS server.
 - Timeout: Enter DNS Timeout values.
 - Status: Indicates the connection status, which is automatically determined by the system.

D-Lin1	<i>r</i> °					
DCS-3710	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Setup Wizard	DYNAMIC DNS					Helpful Hints
Network Setup				that you have purchase		Dynamic DNS is useful if you have a DSL or Cable
Dynamic DNS	broadband Interne	et service providers a	ssign dynamic (chang	mically assigned IP addre ing) IP addresses. By usi	ng a DDNS	service provider that changes your modem IP
Image Setup	address is.	nter your domain na	me to connect to you	ur camera no matter wh	at your IP	address periodically. This will allow you to assign a
Audio and Video	Sign up for D-Link	s Free DDNS service	at www.DLinkDDNS.	<u>com.</u>		website domain name to your camera instead of
Motion Detection		Save Setti	ngs Don't Save :	Settings		connecting through an IP address.
Time and Date						
Event Setup	DYNAMIC DNS	SETTING				
SD Card	Enable DDNS					
Logout	Server Address	www.dlinkdd	ns.com -	<< www.dlinkddns.com	Ŧ	
	Host Name					
	User Name					
	Password					
	Verify Password					
	Timeout	24		hours)		
	Status	none				
		Save Setti	ngs Don't Save :	Settings		

Image Setup

In this section, you may configure the video image settings for your camera. A preview of the image will be shown in Live Video.

Enable Privacy Mask: The Privacy Mask setting allows you to specify up to 3 rectangular areas on the camera's image to be blocked/excluded from recordings and snapshots.

You may click and drag the mouse cursor over the camera image to draw a mask area.

Right clicking on the camera image brings up the following menu options:

Disable All: Disables all mask areas **Enable All:** Enables all mask areas **Reset All:** Clears all mask areas.

Mirror: Mirrors the images.

Flip: Rotates the image 180 degrees.

White Balance: If this option is enabled, white objects will be rendered as white on the screen.

AGC: Controls the gain of a signal. Using AGC means that weaker signals receive more gain and stronger signals receive less gain or none at all.

For better performance in low light environments, use a higher AGC value. For better WDR performance, use a higher AGC value. To reduce sharpness and noise, use a lower AGC value.

Exposure Time: Exposure Time: Specifies the maximum exposure time. If an AGC value has been set, the exposure time will be automatically set to to "Auto".



Brightness: Adjust this setting to compensate for backlit subjects.

Contrast: Adjust this setting to alter the color intensity/strength.

- Saturation: This setting controls the amount of coloration, from grayscale to fully saturated.
- Sharpness: Specify a value from 0 to 8 for image edge enhancement.
- **WDR Level:** Adjust the wide dynamic range level from 0 to 8. The ideal value for WDR is 8.
- **Reset Default:** Click this button to reset the image to factory default settings.

Audio and Video

You may configure 3 video profiles with different settings for your camera. Hence, you may set up different profiles for your computer and mobile display. In addition, you may also configure the two-way audio settings for your camera.

Resolution: This option allows the user to choose the video resolution of the camera between 160x120, 320x240, 640x480, 1280x720, and 1280x960:

• QQVGA @ 160x120 - Typically used on handheld devices.

• QVGA @ 320x240 - Standard resolution for mobile phones and PDAs.

• VGA @ 640x480 - Standard resolution for computer displays.

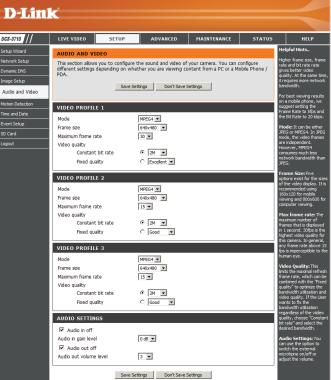
• WXGA @ 1280x720 - Standard resolution for computer displays.

• SXGA- @ 1280x960 - Standard resolution for computer displays.

FPS (Frames Per Second): A higher frame rate provides smoother motion for videos. Lower frame rates will result in stuttering motion.

bps (Bits Per Second): The bps will affect the bit rate of the video recorded by the camera. Higher bit rates result in higher video quality.

JPEG Quality: Select the image quality level of JPEG images. You may choose Standard, Good, or Excellent.



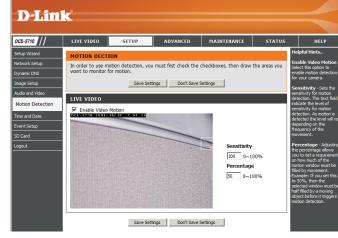
Motion Detection

Enabling Video Motion will allow your camera to use the motion detection feature. You may draw a finite motion area that will be used for monitoring.

Enable Video Motion: Select this box to enable the motion detection feature of your camera.

Sensitivity: Specifies the measurable difference between two sequential images that would indicate motion. Please enter a value between 0 and 100.

Percentage: Specifies the amount of motion in the window being monitored that is required to initiate an alert. If this is set to 100%, motion is detected within the whole window will trigger a snapshot.



Draw Motion Area: Draw the motion detection area by dragging your mouse in the window (indicated by the red square).

Erase Motion Area: To erase a motion detection area, simply click on the red square that you wish to remove.

Right clicking on the camera image brings up the following menu options:

Select All: Draws a motion detection area over the entire screen.

Clear All: Clears any motion detection areas that have been drawn.

Restore: Restores the previously specified motion detection areas.



Time and Date

This section allows you to automatically or manually configure, update, and maintain the internal system clock for your camera.

Time Zone: Select your time zone from the drop-down menu.

Enable Daylight Saving: Select this to enable Daylight Saving Time.

Auto Daylight Saving: Select this option to allow your camera to configure the Daylight Saving settings automatically.

Set Date and Time Manually: Selecting this option allows you to configure the Daylight Saving date and time manually.

Offset: Sets the amount of time to be added or removed when Daylight Saving is enabled.

Synchronize with NTP Server: Enable this feature to obtain time automatically from an NTP server.

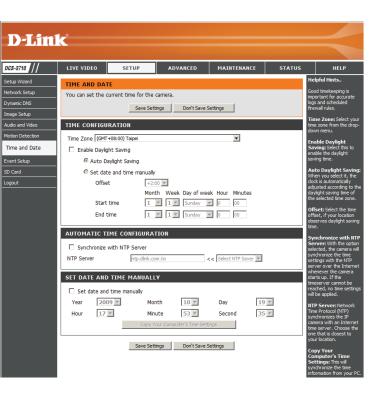
NTP Server: Network Time Protocol (NTP) synchronizes the DCS-3710 with an Internet time server. Choose the one that is closest to your location.

Set the Date and Time

Manually: This option allows you to set the time and date manually.

Copy Your Computer's Time

Settings: This will synchronize the time information from your PC.



Event Setup

D

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The Event Setup page includes 4 different sections.

- Event
- Server
- Media
- Recording

1. To add a new item - "event, server or media," click **Add**. A screen will appear and allow you to update the fields accordingly.

2. To delete the selected item from the pull-down menu of event, server or media, click **Delete**.

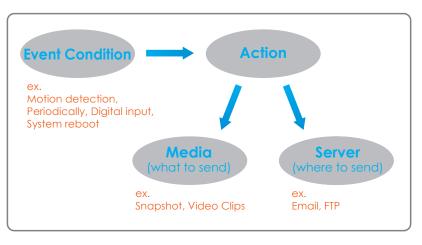
3. Click on the item name to pop up a window for modifying.

Note: You can add up to four events, five servers, and five media fields.

)-Lini	C					
s-3710 //	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
up Wizard	SERVER		·			Helpful Hints
twork Setup	You can set at mo	ost 5 different serve	rs here for different ev	vent.		"Server name" The unique name for server.
namic DNS		Test Save	Settings Don't Sa	ve Settings		There are four kinds of servers supported. They
age Setup						are email server, FTP server, HTTP server and
dio and Video tion Detection	SERVER TYPE					network storage.
e and Date	Server Name:					Email server: "Sender email address" The email
vent Setup	• Email	er email address				address of the sender. "Recipient email
		er email address ent email address				address" The email address of the recipient.
Card		r address				FTP server:
	User n					"Remote folder name" Granted folder
	Passw					on the external FTP server. The string must
	Port		25			conform to that of the external FTP server.
	C FTP					Some FTP servers cannot accept preceding slash
	Server	r address				symbol before the path without virtual path
	Port		21			mapping. Refer to the instructions for the
	User n	name				external FTP server for details. The folder privilege must be open
	Passw	rord				for upload. " Passive Mode " Check
	Remot	te folder name				it to enable passive mode
	D Pa	assiye mode				Network storage: Only
	C Network stor	age				one network storage is supported.
		ork storage location	,			"Network storage location" The path to
	(for ex Workd	xample:\\my_nas\di	sk\folder)			upload the media. "Workgroup" The
	User n					workgroup for network storage.
	Passw		I			SD card:
		v WINS server				Use the SD card for recording media.
	C SD Card	1 AATIAD SCINCI	I			
		Test Save	Settings Don't Sa	ve Settings		

Application

In a typical application, when motion is detected, the DCS-3710 Network Camera sends images to a FTP server or via e-mail as notifications. As shown in the illustration below, an event can be triggered by many sources, such as motion detection or external digital input devices. When an event is triggered, a specified action will be performed. You can configure the Network Camera to send snapshots or videos to your e-mail address or FTP site.



To start plotting an event, it is suggested to configure server and media columns first so that the Network Camera will know what action shall be performed when a trigger is activated.

Add Server

Configure up to 5 servers to store media.

Server Name: Enter the unique name of your server.

E-mail: Enter the configuration for the target e-mail server account.

FTP: Enter the configuration for the target FTP server account.

Network Storage: Specify a network storage device. Only one network storage device is supported.

SD Card: Use the camera's onboard SD card storage.

D-Lini	C					
DCS-3710	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Setup Wizard	SERVER					Helpful Hints
Network Setup	You can set at most 5 different servers here for different event.					'Server name" The inique name for server.
Dynamic DNS	Test Save Settings Don't Save Settings					There are four kinds of servers supported. They
Image Setup						are email server, FTP server, HTTP server and
Audio and Video	SERVER TYPE					network storage.
Motion Detection	Server Name: Server1					imail server: 'Sender email
Time and Date	© Email					address" The email address of the sender.
Event Setup SD Card	Sender email address					'Recipient email address" The email
Logout	Recipient email address					address of the recipient.
Logout	Serve	er address				TP server:
	User	name			n	Remote folder ame" Granted folder
	Passv	vord			4	on the external FTP erver. The string must
	Port		25		6	conform to that of the external FTP server.
	C FTP				8	Some FTP servers cannot accept preceding slash
	Serve	er address				ymbol before the path vithout virtual path
	Port		21			mapping. Refer to the instructions for the external FTP server for
	User	name			c	letails. The folder privilege must be open
	Passv	vord			f	or upload. Passive Mode" Check
	Remo	te folder name				it to enable passive mode in transmission.
	Passlye mode					Vetwork storage: Only
	C Network storage					upported.
	Netw	ork storage location				'Network storage ocation" The path to
	(for example:\\my_nas\disk\folder)					pload the media. 'Workgroup" The
	Work	group			1	vorkgroup for network
	User					torage.
	Passv	vord			i i	5D card: Jse the SD card for
	Prima	ry WINS server			r	ecording media.
	C SD Card					

Add Media

There are three types of media, Snapshot, Video Clip and System Log.

Media Name: Enter an unique name for media.

Snapshot: Select this option to enable snapshots.

Source: The stream source: Profile 1, Profile 2 or Profile 3.

Send pre-event image(s) [0~4]: The number of pre-event images.

Send post-event
image(s) [0~7]: The number of post-event images.

File name prefix: The prefix name will be added on the file name.

Add date and time suffix to file name: Check it to add timing information as file name suffix.

Video clip: Select this option to enable video clips.

- Source: The source of the profile: profile1, profile2, or profile3.
- Pre-event recording: The interval of pre-event recording in seconds.
- Maximum duration: The maximal recording file duration in seconds.

Maximum file size: The maximal file size would be generated.

File name prefix: The prefix name will be added on the file name of the video clip.

System log: Select this option to save events to the camera system log.

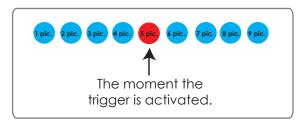


Send post-event image (s) [0~7)

Specify to capture the number of images after a trigger is activated. A maximum of seven images can be generated.

For example:

If both the Send pre-event images and Send post-event images are set to four, a total of 9 images are generated after a trigger is activated.



Add a date and time suffix to the file name

Select this option to add a date and time to the file name suffix.



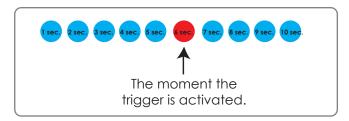
Maximum duration

Specify the maximal recording duration in seconds. You can set up to ten seconds.

For example:

Configuration

If the Pre-event recording is set to five seconds and the Maximum duration is set to ten seconds, the Network Camera continues to record for another four seconds after a trigger is activated.



File name prefix

Enter the text that will be added at the beginning of the file name.



Add Event

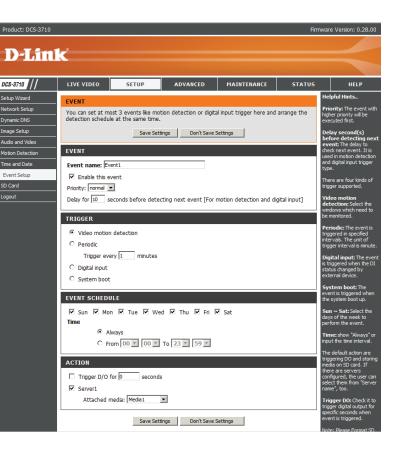
Create and schedule up to 3 events with their own settings here.

Event name: Enter a name for the event.

- Enable this Select this box to activate this event. event:
 - **Priority:** Set the priority for this event. The event with higher priority will be executed first.
 - **Delay:** Select the delay time before checking the next event. It is being used for both events of motion detection and digital input trigger.
 - Trigger: Specify the input type that triggers the event.
- Video Motion Motion is detected during live video monitoring. Select **Detection:** the windows that need to be monitored.
 - **Periodic:** The event is triggered in specified intervals. The trigger interval unit is in minutes.
- Digital input: The external trigger input to the camera.
- System Boot: Triggers an event when the system boots up.

Time: Select Always or enter the time interval.

- Trigger D/O: Select to trigger the digital output for a specific number of seconds when an event occurs.
 - **Server:** Specify the location where the event information should be saved to.



Add Recording

Here you can configure and schedule the recording settings.

Recording entry

name: The unique name of the entry.

Enable this

recording: Select this to enable the recording function.

Priority: Set the priority for this entry. The entry with a higher priority value will be executed first.

Source: The source of the stream.

Recording

schedule: Scheduling the recording entry.

Recording settings: Configuring the setting for the recording.

D-Link DCS-3710 I TVE VIDE MATNTENANCE You can setup schedule recording to network storage with your specify week day and tim Save Settings Don't Save Settings Recording entry name: Enable this recording Priority: normal 💌 Source: Profile 1 Mon Thue Wed Thu Fri The Sat C From 00 ▼ 00 ▼ To 23 ▼ 59 ▼ Destination Server1 Total cycling recording size: 1000 Kbytes [1000~20000000] Size of each file for recording: 200 Kbytes [200~5000] File Name Prefix: Save Settings Don't Save Settings

Destination: Select the folder where the recording file will be stored.

Total cycling Please input a HDD volume between 1MB and 200GB for recording space. The recording data will replace the **recording size**: oldest record when the total recording size exceeds this value. For example, if each recording file is 6MB, and the total cyclic recording size is 600MB, then the camera will record 100 files in the specified location (folder) and then will delete the oldest file and create new file for cyclic recording.

Please note that if the free HDD space is not enough, the recording will stop. Before you set up this option please make sure your HDD has enough space, and it is better to not save other files in the same folder as recording files.

Size of each file

for recording: File size for each recording file. You may input the value in the range of 200-5000.

File Name Prefix: The prefix name will be added on the file name of the recording file(s).

SD Card

Here you may browse and manage the recorded files which are stored on the SD card.

Format SD Card: Click this icon to automatically format the SD card and create "picture" & "video" folders.

View Recorded Picture: If the picture files are stored on the SD card, click on the picture folder and choose the picture file you would like to view.

- Playback Recorded Video: If video files are stored on the SD card, click on the video folder and choose the video file you would like to view.
 - **Refresh:** Reloads the file and folder information from the SD card.



Advanced

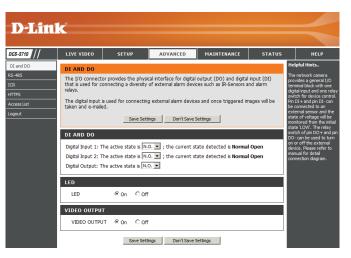
Digital Input/Output

This screen allows you to control the behavior of digital input and digital output devices. The I/O connector provides the physical interface for digital output (DO) and digital input (DI) that is used for connecting a diversity of external alarm devices such as IR-Sensors and alarm relays. The digital input is used for connecting external alarm devices and once triggered images will be taken and e-mailed.

Select D/I or D/O Mode: The camera will send a signal when an event is triggered, depending upon the type of device connected to the DI circuit.

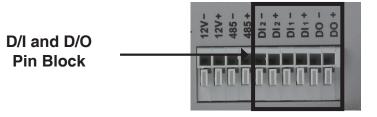
> N.C. stands for **Normally Closed**. This means that the normal state of the circuit is closed. Therefore events are triggered when the device status changes to "Open."

N.O. stands for **Normally Open**. This means that the normal state of the circuit is open. Therefore events are triggered when the device status changes to "Closed."



LED: You may specify whether or not to illuminate the LED on the side of the camera.

Video Output: Enable/ disable the BNC terminal TV output signal.



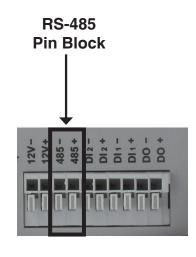
RS-485

You may configure the RS-485 settings or communication specifications (baud rate, data bit, stop bit, and parity bit) for your camera. RS-485 is a serial communication method for computers and devices. RS-485 is used to control a PAN/TILT apparatus, such as an external camera enclosure.

Support PAN- When Support PAN-TILT is enabled, a control panel

- **TILT:** will be displayed on the Live Video page allowing control through RS-485 for an external camera enclosure.
- Protocol: Select one protocol type from the pull-down menu.
 - **ID:** This ID is the identifier for RS-485 devices. IDs range from 1 to 255.
- **Baud Rate:** Baud Rate is a speed measurement for communication between a transmitter and receiver which indicates the number of bit transfers per second. A higher baud rate will reduce the distance of the two devices (transmitter and receiver). Values range from 2400 (default) to 19200 bps.
 - **Data Bit:** This value is the number of data bits in a transmission. The data bit can be 7 or 8 (default).
- **Parity Bit:** Parity is a form of error checking used in serial communication. For even and odd parities, the serial port sets the parity bit (the last bit after the data bits) to a value to ensure that the transmission has an even or odd number of logic-high bits. For example, if the data is 011, for even parity, the parity bit is 0 to keep the number of logic-high bits even. If the parity is odd, the parity bit is 1, resulting in 3 logic-high bits. Parity can be set to **No** (none), **Even**, and **Odd**.
- Stop Bit: The stop bit is used to signal the end of communication for a single packet. The more bits used for stop bits, the greater the lenience in synchronizing the different clocks but the slower the data transmission rate. The stop bit can be set to 1 or 2. The default value is 1.



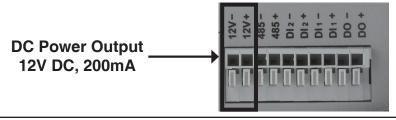


ICR

You may configure the ICR settings here. An IR(Infrared) Cut-Removable(ICR) filter can be disengaged for increased sensitivity in low light environments.

- Automatic: The Day/Night mode is set automatically. Generally, the camera uses Day mode and switches to Night mode when needed.
- Day Mode: Day mode enables the IR Cut Filter.
- Night Mode: Night mode disables the IR Cut Filter.
- Schedule Mode: Set up the Day/Night mode using a schedule. The camera will enter Day mode at the starting time and return to Night mode at the ending time.
- DC Power Output: The DC 12V Power Output port can supply 12V DC, 200mA of power to another device (such as a spotlight or infrared lamp). Its default setting is Off, meaning it will not supply power. You can select On to turn on the power supply. If you choose Sync With ICR, the power output will be enabled whenever the IR Cut Filter is active. Alternatively, you can select Schedule and manually specify when the power should be enabled.





HTTPS

This page allows you to install and activate an HTTPS certificate for secure access to your camera.

Enable HTTPS Secure

Connection: Enable the HTTPS service.

Create Certificate Method: Choose the way the certificate should be created. Three options are available:

Create a self-signed certificate automatically Create a self-signed certificate manually Create a certificate request and install

Status: Displays the status of the certificate.

Note: The certificate cannot be removed while the HTTPS is still enabled. To remove the certificate you must first uncheck **Enable HTTPS secure connection**.



Access List

Here you can set access permissions for users to view your DCS-3710.

Allow list: The list of IP addresses that have the access right to the camera.

Start IP address: The starting IP Address of the devices (such as a computer) that have permission to access the video of the camera. Click Add to save the changes made.

Note: A total of seven lists can be configured for both columns.

- End IP address: The ending IP Address of the devices (such as a computer) that have permission to access the video of the camera.
- Delete allow list: Remove the customized setting from the Allow List.

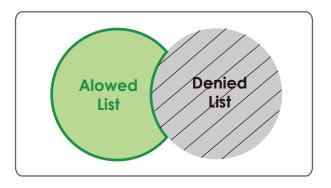
D-Link DCS-3710 LIVE VIDEO MAINTENANCE ADVANCED STATUS ACCESS LTS Here you can set access permissions for users to view your DCS-3710 ALLOW LIST Start IP address Access List End IP address Add Delete Delete allow list -DENY LIST Start IP address End IP address Add Delete Delete deny list •

Deny list: The list of IP addresses that have no access right to the camera.

Delete deny list: Remove the customized setting from the Delete List.

For example:

When the range of the Allowed List is set from 1.1.1.0 to 192.255.255.255 and the range of the Denied List is set from 1.1.1.0 to 170.255.255.255. Only users with IPs located between 171.0.0.0 and 192.255.255.255 can access the Network Camera.



Maintenance

Device Management

You may modify the name and administrator's password of your camera, as well as add and manage the user accounts for accessing the camera. You may also use this section to create the unique name and configure the OSD setting for your camera.

Admin Password Setting: Set a new password for the administrator's account.

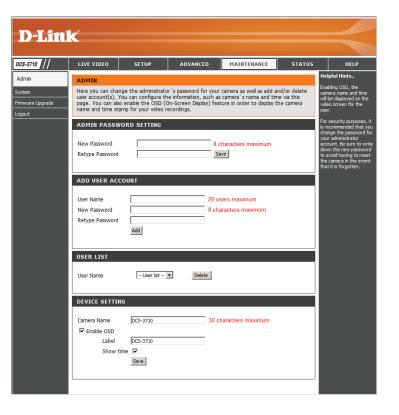
Add User Account: Add new user account.

User Name: The user name for the new account.

Password: The password for the new account.

- User List: All the existing user accounts will be displayed here. You may delete accounts includes in the list, but please reserve at least one as guest.
- **Camera Name:** Create a unique name for your camera that will be added to the file name prefix when creating a snapshot or a video clip.
 - Enable OSD: Select this option to enable the On-Screen Display feature for your camera.

Label: Enter a label for the camera.



Show Time: Select this option to enable the time-stamp display on the video screen.

Backup and Restore

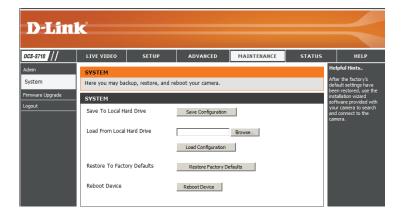
In this section, you may backup, restore and reset the camera configuration, or reboot the camera.

Save To Local Hard Drive: You may save and document your current settings into your computer.

Local From Local Hard Drive: Locate a pre-saved configuration by clicking Browse and then restore the pre-defined settings to your camera by clicking Load Configuration.

Restore to Factory Default: You may reset your camera and restore the factory settings by clicking Restore Factory Defaults.

Reboot Device: This will restart your camera.



Firmware Upgrade

The camera's current firmware version will be displayed on this screen. You may visit the D-Link Support Website to check for the latest available firmware version.

To upgrade the firmware on your DCS-3710, please download and save the latest firmware version from the D-Link Support Page to your local hard drive. Locate the file on your local hard drive by clicking the **Browse** button. Select the file and click the **Upload** button to start upgrading the firmware.

Current Firmware Version: Displays the detected firmware version.

Current Product Name: Displays the camera model name.

File Path: Locate the file (upgraded firmware) on your hard drive by clicking **Browse**.

Upload: Uploads the new firmware to your camera.



Status

Device Info

This page displays detailed information about your device and network connection.

D-Lin	1 k					\prec	
DCS-3710	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP	
Device Info	DEVICE INFO					Helpful Hints	
Log Logout	All of your network connection details are displayed on this page. The firmware version is also displayed here.						
	INFORMATION	INFORMATION					
	Camera Name Time & Date Firmware Version MAC Address IP Address IP Subnet Mask Default Gateway Primary DNS Secondary DNS PPPOE DDNS AES TV Output Mode	DCS-3710 Mon Oct 19 17 0.26.00 00:0C:0C:80:09 172.17.5.113 255.255.255.0 172.17.5.254 0.0.0.0 168.95.1.1 Disable Disable Enable NTSC	9:09				

Logs

This page displays the log information of your camera. You may download the information by clicking **Download**. You may also click **Clear** to delete the saved log information.

DCS-3710	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP	
evice Info	SYSTEM LOG				H	lelpful Hints	
og	The system log re	ecords camera events	s that have occurred.			You can save the log to your local hard drive by	
qout							
your	CURRENT LOG					button, and you can d the log by clicking on t Clear button.	
	1. 2009-10-19 17	7:50:54 MOTION OC	CURRED				
	2. 2009-10-19 17	7:50:53 MOTION OC	CURRED				
	3. 2009-10-19 17	3. 2009-10-19 17:50:50 MOTION OCCURRED					
	4. 2009-10-19 17	4. 2009-10-19 17:50:49 MOTION OCCURRED					
		5. 2009-10-19 17:50:48 MOTION OCCURRED					
	6. 2009-10-19 17						
	7. 2009-10-19 17						
	8. 2009-10-19 17 9. 2009-10-19 17						
	10, 2009-10-19 1						
		11. 2009-10-19 17:50:37 MOTION OCCURRED 12. 2009-10-19 17:50:36 MOTION OCCURRED					
	13. 2009-10-19 1	13. 2009-10-19 17:50:34 MOTION OCCURRED					
	14. 2009-10-19 1	14. 2009-10-19 17:50:33 MOTION OCCURRED					
	15. 2009-10-19 1	15. 2009-10-19 17:50:31 MOTION OCCURRED					
	16. 2009-10-19 1	16. 2009-10-19 17:50:30 MOTION OCCURRED					
		17. 2009-10-19 17:50:29 MOTION OCCURRED					
	18. 2009-10-19 1						
		17:50:27 MOTION O					
	20 2000 10 10 1	17:49:48 MOTION O	CCURRED				

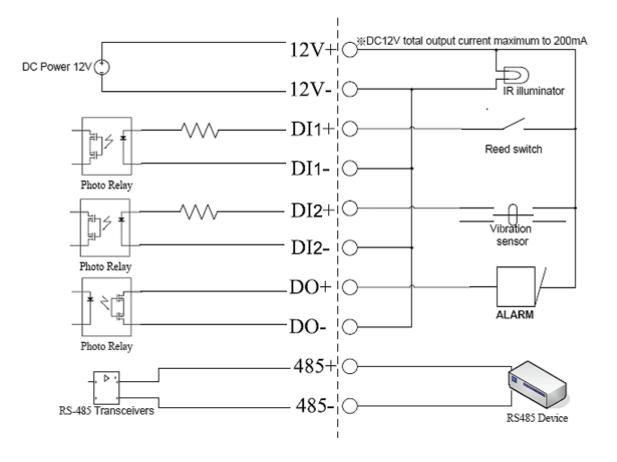
Help

This page provides helpful information regarding camera operation.

D-Lin	C					
DCS-3710	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Help Menu	HELP MENU					
Logout	 LIVE VIDEO SETUP MAINTENANCE ADVANCED STATU 					
	LIVE VIDEO					
	• <u>Camera</u>					
	SETUP					
	 <u>Setup Wizard</u> <u>Network Setup</u> <u>Dynamic DNS</u> <u>Image Setup</u> <u>Audio and Video</u> <u>Motin Detection</u> <u>Time and Date</u> <u>Event Setup</u> <u>SD Card</u> 					
	ADVANCED					
	<u>DI and DO</u> <u>RS-485</u> <u>ICR</u> <u>HTTPS</u> <u>Access List</u>					
	MAINTENANCE					
	• <u>Admin</u> • <u>Syatem</u> • <u>Firmware Upgrad</u>	<u>e</u>				
	STATUS					

DI/DO Schematics

DI/DO



Technical Specifications

General Specification

- 1/3" Megapixel WDR Progressive Scan CMOS
- Removable IR-cut Filter: Auto/Schedule/Manual
- 3A Control: AGC, AWB, AES
- DC Iris vari-focal Lens: 2.8~12mm, F1.3
- Min illumination: Color 0.3 lux, B/W: 0.02 lux
- WDR SN ratio: 100 dB

Audio

- Two-way audio
- External audio in
- External audio out
- G.726 Codec

Video Algorithms Supported

- Simultaneous dual stream supports MPEG and MJPEG
- Simultaneous profile support for web viewing, 3G mobile viewing, and video recording
- JPEG compression for still images

Video Resolution

- Supported resolutions: 1280 x 960 / 1280 x 720 / 640x480 / 320x240 / 160x120
- Up to 30fps for all resolutions

Network Connectivity

- 802.3af Power over Ethernet (PoE)
- 10/100 Mbps Fast Ethernet Auto Negotiation

I/O Connector

- 4-Pin auto iris lens connector
- DI x 2
- DO x 1
- RS-485
- 12V DC , 200mA Output
- SD Slot

Security

- Administrator and user group protected
- Password authentication
- Remote Management
- Camera confiscation and camera system log
- Take snapshots and save to hard drive via a web browser
- D-ViewCam[™]

Networking Protocols

- IPv4, DHCP, ARP, DNS, TCP/IP, DDNS (D-Link), HTTP, HTTPS, UPnPTM Port Forwarding,
- Samba, SMTP, PPPoE, NTP (D-Link), FTP, RTP, RTSP, UDP, RTCP, ICMP, 3GPP

System Requirements for Viewing

Internet Explorer v6.0 or later

System Requirements to Run D-ViewCam™

- Operating System: Windows Vista ®, Microsoft Windows ® XP
- Web Browser: Internet Explorer v6.0 or later
- Protocol: Standard TCP/IP

Power Input

• 100-240VAC, 50/60Hz, 12V DC 1.25A

Dimensions (W x D x H)

• 80mm x 140mm x 53mm

Operating Temperature

0°~40°C (32°-104°F)

Storage Temperature

■ -20°~70°C (-4°-158°F)

Humidity

20%-80% Non-condensing

Certification

- CE (Class A)
- C-Tick (Class A)
- FCC (Class A)